

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/986,956	11/13/2001	Manuel Barbosa	11017-0006	6385
7	590 09/27/2004		EXAM	INER
CLARK & BRODY			NGUYEN, XUAN LAN T	
Suite 600 1750 K Street,	NW .		ART UNIT	PAPER NUMBER
Washington, DC 20006			3683	

DATE MAILED: 09/27/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	·						
		Application No.	Applicant(s)	-			
		09/986,956	BARBOSA, MANUEL				
	Office Action Summary	Examiner	Art Unit				
		Lan Nguyen	3683				
Period fe	 The MAILING DATE of this communication app or Reply 	ears on the cover sheet	vith the correspondence address				
THE - Exte after - If the - If NO - Failt - Any	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. Insions of time may be available under the provisions of 37 CFR 1.1: SIX (6) MONTHS from the mailing date of this communication. It period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period vare to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a within the statutory minimum of the will apply and will expire SIX (6) MC, cause the application to become a	a reply be timely filed irty (30) days will be considered timely. DNTHS from the mailing date of this communicati ABANDONED (35 U.S.C. § 133).	ion.			
1)⊠	Responsive to communication(s) filed on 24 J	<u>lune 2004</u> .					
2a)⊠	This action is FINAL . 2b) ☐ Th	is action is non-final.					
3)	Since this application is in condition for alloward closed in accordance with the practice under			s is			
·	ion of Claims						
4)🖂	Claim(s) <u>1-13</u> is/are pending in the application						
5 \□	4a) Of the above claim(s) is/are withdrawn from consideration.						
_	Claim(s) is/are allowed.						
·	Claim(s) <u>1-13</u> is/are rejected. Claim(s) is/are objected to.						
	Claim(s) are subject to restriction and/or	r election requirement					
	ion Papers	oloollon requirement.					
9)[The specification is objected to by the Examine	r.					
10)	The drawing(s) filed on is/are: a)☐ accep	oted or b) objected to by	the Examiner.				
	Applicant may not request that any objection to the	e drawing(s) be held in abe	yance. See 37 CFR 1.85(a).				
11)⊠	The proposed drawing correction filed on <u>24 Jun</u>	<u>ne 2004</u> is: a) <u></u> approve	ed b)⊠ disapproved by the Examine	er.			
	If approved, corrected drawings are required in rep	oly to this Office action.					
12)	The oath or declaration is objected to by the Ex	aminer.					
Priority (under 35 U.S.C. §§ 119 and 120						
13)	Acknowledgment is made of a claim for foreign	priority under 35 U.S.C	§ 119(a)-(d) or (f).				
a)	☐ All b)☐ Some * c)☐ None of:						
	1. Certified copies of the priority documents	s have been received.					
	2. Certified copies of the priority documents	s have been received in	Application No				
* (3. Copies of the certified copies of the prior application from the International But See the attached detailed Office action for a list	reau (PCT Rule 17.2(a))					
	Acknowledgment is made of a claim for domesti			ition).			
	The translation of the foreign language pro Acknowledgment is made of a claim for domesti			·			
Attachmen		, ,	5 5				
2) Notic	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice o	v Summary (PTO-413) Paper No(s) f Informal Patent Application (PTO-152)	.•			

Application/Control Number: 09/986,956 Page 2

Art Unit: 3683

DETAILED ACTION

Drawings

- 1. The proposed figures 1 and 2, submitted on 6/24/04, are not approved because the faxed copies are too small and of poor quality; and the proposed changes are very hard to see.
- 2. A proposed drawing correction, corrected drawings, or amendment to the specification to add the reference sign(s) in the description, are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Specification

3. The amendments to the specification have been approved.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 5. Claims 1, 4, 7 and 8 are rejected under 35 U.S.C. 102(b) as being anticipated by Spiller et al.

Re: claim 1, Spiller et al. show a dual leading-shoe brake system, as in the present invention, comprising: a backing plate 10; first and second actuating levers 51, 51 arranged for radial moment and first and second brake shoes B, B; each brake shoe engaging a respective one of said actuating levers such that said actuating levers urge said brake shoes radially outward during braking operation, as shown in figure 1, a first anchor 15 fixed to said backing plate and engaging first ends of said actuating levers and adapted to engage a first end of a said brake shoe during braking, a second anchor 16 adapted to engage a second end of said a brake shoe during braking, and an activating element C engaging second ends of said levers and adapted to urge said levers apart during braking, see page 4, first column, lines 6-16 and 63-72.

Re: claim 4, Spiller further shows first and second pins 79, 79, each of said pins connecting a respective one of said first and second levers to a respective one of said first and second brake shoes.

Re: claim 7, Spiller et al. show a dual leading-shoe drum brake system, as in the present invention, comprising: a backing plate 10; an upper anchor 16 secured to an upper part of said backing plate; a lower anchor 15 secured to a lower part of said backing plate; first and second 51, 51 substantially identical actuating levers arranged symmetrically with respect to a line between said upper and lower anchors for radial movement and engaging said lower anchor, as shown in figure 1; first and second B, B substantially identical brake shoes, each of said brake shoes being located adjacent a respective one of said actuating levers and adapted to be activated by said lever; wherein said brake shoes selectively engage said upper and lower anchors to transfer

Art Unit: 3683

braking forces during braking, see page 4, first column, lines 6-16 and 63-72; and an actuating cylinder C engaging upper ends of said actuating levers to urge said levers apart and initiate said braking.

Re: claim 8, Spiller further shows an adjustment link 97, 98 extending between said first and second actuating levers.

Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. Claims 2, 3, 5, 6 and 9-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Spiller et al. in view of Yamamoto.

Re: claims 2 and 3, Spiller's brake system, as rejected in claim 1, lacks an adjuster of variable length and a parking brake lever as claimed in claims 2 and 3. Yamamoto teaches an automatic adjuster link of variable length 88, 26 and a parking brake lever 30 pivotally attached to a web 62 of shoe 18 and engaging said adjuster such that pivotal motion of said parking brake lever applies a separating force to said adjuster and to said web 62 as described in the Abstract. It would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified Spiller's brake system with an automatic adjuster link of variable length and a parking brake lever such as taught by Yamamoto in order to automatically adjusting the brake

Art Unit: 3683

shoes according to brake lining wear levels and to utilize the same brake system as a service brake and a parking brake. Since automatically adjusting the shoes would increase the effectiveness of the brake system and saving time for the driver from having to manually adjusting said shoes; and utilizing the same service brake system as a parking brake would save the cost of making a vehicle. Furthermore, Yamamoto's adjuster and parking brake lever work together so that when the parking brake lever is actuated, the adjuster is actuated at the same time to adjust for brake wear, which adds even more convenience to the driver.

Re: claims 10 and 11, Spiller's brake system lacks a block as said first anchor. Yamamoto teaches a block 20 as a first anchor for the webs 62, 52 wherein said first anchor is secured to the backing plate by rivets, as shown in figure 1. It would have been obvious to one of ordinary skill in the art at the time the invention was made to have further modified Spiller's brake system to have one common block as a first anchor in order to simplify the design at the same time reducing the cost of making the brake system as taught by Yamamoto.

Re: claims 5 and 6, Spiller et al. show a brake system, as in the present invention, comprising: first and second actuating levers 51, 51 arranged for radial movement to actuate respective brake shoes B, B. Spiller lacks a link extending between respective ends of said levers, and a parking brake lever pivotally attached to one of said actuating levers at a pivotal connection and also engaging one end of said link such that pivotal movement of said parking brake lever applies a force to said one of said actuating levers through said pivot connection and to the other of said actuating

Art Unit: 3683

levers through said link. Yamamoto teaches an automatic adjuster link of variable length 88, 26 and a parking brake lever 30 pivotally attached to a web 62 of shoe 18 and engaging said adjuster such that pivotal motion of said parking brake lever applies a separating force to said adjuster to web 52 and another force to said web 62 by the pivotal connection 66 as described in the Abstract. It would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified Spiller's brake system with an automatic adjuster link of variable length and a parking brake lever such as taught by Yamamoto in order to automatically adjusting the brake shoes according to brake lining wear levels and to utilize the same brake system as a service brake and a parking brake. Since automatically adjusting the shoes would increase the effectiveness of the brake system and saving time for the driver from having to manually adjusting said shoes; and utilizing the same service brake system as a parking brake would save the cost of making a vehicle. Furthermore, Yamamoto's adjuster and parking brake lever work together so that when the parking brake lever is actuated, the adjuster is actuated at the same time to adjust for brake wear, which adds even more convenience to the driver.

Re: claim 9, Spiller's brake system, as rejected in claims 7 and 8, lacks a parking brake lever as claimed. Yamamoto teaches a parking brake lever 30 pivotally attached to a web 62 of shoe 18 to utilize the same brake system for both service braking and parking braking. It would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified Spiller's brake system with a parking brake lever such as taught by Yamamoto in order to utilize the same brake system as a

Application/Control Number: 09/986,956 Page 7

Art Unit: 3683

service brake and a parking brake in order to save the cost of making a vehicle as compared to having separate service and parking brake systems. As modified, Spiller's parking brake lever would engage the adjustment link 97, 98 via the actuating lever 51.

Re: claims 12 and 13, Spiller's brake system lacks a block as said first anchor. Yamamoto teaches a block 20 as a first anchor for the webs 62, 52 wherein said first anchor is secured to the backing plate by rivets, as shown in figure 1. It would have been obvious to one of ordinary skill in the art at the time the invention was made to have further modified Spiller's brake system to have one common block as a first anchor in order to simplify the design at the same time reducing the cost of making the brake system as taught by Yamamoto.

Response to Arguments

8. Applicant's arguments filed 6/24/04 have been fully considered but they are not persuasive. Applicant argues that pin 15 of Spiller does not meet the claimed structure of the anchor because pin 15 are separate pins while the instant invention shows a block anchor 14 in figure 1. Applicant's argument is more specific than the claim language. Claim 1 simply claims a first anchor. Pin 15 of Spiller is considered as a first anchor and said pin 15 is fixed to the back plate 10 as shown in figure 1 of Spiller. In claim 10, where said first anchor is further specified to be a block, a modification, according to the teaching of Yamamoto wherein Yamamoto teaches an anchor block 20, has been applied to Spiller's brake apparatus. The Examiner maintains that the rejections are still deemed proper and are repeated above.

Conclusion

9. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lan Nguyen whose telephone number is 703-308-8347. The examiner can normally be reached on M-F, 8 to 4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jack Lavinder can be reached on 703-308-3421. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Art Unit: 3683

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Lan Nguyen Patent Examiner Art Unit 3683 Page 9

9/2/04